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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/848,965

Filed: May 4, 2001

Inventor(s):

Clois E. Powell

Title: PROCESS FOR
TREATING SMECTITE
CLAYS TO FACILITATE
EXFOLIATION

§ Examiner: Unknown

§ Group/Art Unit: 1714

§ Atty. Dkt. No: 5628-02102

CERTIFICATE OF MAILING
UNDER 37 C.F.R. §1.8

DATE OF DEPOSIT: 9-19-02

I hereby certify that this correspondence is being deposited with
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Washington, DC 20231

Jackie L. Pitts

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

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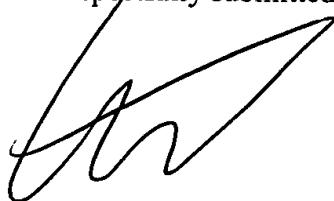
It is respectfully requested that this Information Disclosure Statement be entered and the
documents listed on attached Form PTO-1449 be considered by the Examiner and made of
record. Copies of the listed documents are enclosed for the convenience of the Examiner.

Applicant respectfully requests that the Examiner also consider the following U.S. Patent
Applications: 09/068,277 and 09/422,154. A copy of each of the above-referenced applications
is also enclosed. Applicant further requests that the Examiner consider the claims from U.S.
Patent Application 10/086,173. A copy of the claims is also enclosed.

Clois E. Powell
09/848,965

Should any fees be required, the Commissioner is authorized to charge said fees to
Conley, Rose & Tayon, P.C. Deposit Account No. 50-1505/5628-02102/EBM.

Respectfully submitted,

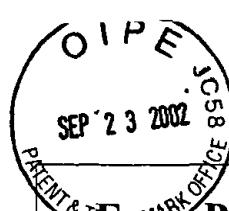


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Date: 9/18/02



Form PTO-1449 (modified)
 List of Patents and Publications
 For Applicant's Information
 Disclosure Statement
 (Use several sheets if necessary)

ATTY. DOCKET NO: 5628-02102

SERIAL NO: 09/848,965

APPLICANT: Clois E. Powell

GROUP: 1714

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	A1	2,367,384	1/1945	Tymstra et al			
	A2	2,531,396	11/1950	Carter et al.			
	A3	2,531,440	11/1950	Jordan			
	A4	2,531,427	11/1950	Hauser			
	A5	2,531,812	11/1950	Hauser			
	A6	2,552,775	5/1951	Fischer et al.			
	A7	2,622,987	12/1952	Ratcliffe			
	A8	2,658,869	11/1953	Stross et al			
	A9	2,739,067	3/1956	Ratcliffe			
	A10	2,750,296	6/1956	Curado et al.			
	A11	2,754,219	7/1956	Voet et al.			
	A12	2,767,177	10/1956	Erickson			
	A13	2,795,545	6/1957	Gluesenkamp			
	A14	2,883,356	4/1959	Gluesenkamp			
	A15	2,966,506	12/1960	Jordan			
	A16	3,027,322	3/1962	Stuchell et al.			
	A17	3,084,117	4/1963	Nahin et al.			
	A18	3,125,547	3/1964	Blatz			
	A19	3,471,439	10/1969	Bixler et al			
	A20	3,537,994	11/1970	House			
	A21	3,567,680	3/1971	Iannicelli			
	A22	3,573,944	4/1971	Gebura			
	A23	3,671,190	6/1972	Neumann			
	A24	3,691,070	9/1972	Pippen			

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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	A25	5,248,720	9/1993	Deguchi et al			
	A26	3,764,456	10/1973	Woodhams			
	A27	3,779,933	12/1973	Eisen			
	A28	3,804,656	4/1974	Kaliski et al.			
	A29	3,843,591	10/1974	Hedrick et al.			
	A30	3,839,389	10/1974	Neuman			
	A31	3,915,867	10/1975	Kang et al.			
	A32	3,951,850	4/1976	Clocker et al			
	A33	3,974,125	8/1976	Oswald et al.			
	A34	3,977,894	8/1976	White et al.			
	A35	3,988,287	10/1976	Inokuchi et al			
	A36	4,040,974	8/9/1977	Wright et al.			
	A37	4,049,780	9/1977	Neumann			
	A38	4,053,493	10/1977	Oswald			
	A39	4,060,518	11/1977	Jeserich et al.			
	A40	4,081,496	3/1978	Finlayson			
	A41	4,087,365	5/1978	Clem			
	A42	4,105,578	8/1978	Finlayson et al.			
	A43	4,116,866	9/1978	Finlayson			
	A44	4,216,135	8/1980	Finlayson			
	A45	4,240,951	12/1980	Moll, Jr. et al.			
	A46	4,251,576	2/1981	Osborn et al.			
	A47	4,291,154	9/1981	Blount			
	A48	4,290,935	9/1981	Muraki			

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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	A49	4,314,919	2/1982	Washabaugh et al.			
	A50	4,314,929	2/1982	Mahoney, Jr.			
	A51	4,315,828	2/1982	Church			
	A52	4,444,714	4/1984	Martenson			
	A53	4,339,391	7/1982	Hoffmann et al.			
	A54	4,341,565	7/1982	Martenson			
	A55	4,349,389	9/1982	Schofield			
	A56	4,365,030	12/1982	Oswald et al			
	A57	4,382,868	5/1983	House			
	A58	4,386,010	5/1983	Hildebrandt			
	A59	4,391,637	7/1983	Mardis et al.			
	A60	4,410,364	10/1983	Finlayson et al			
	A61	4,412,018	10/1983	Finlayson et al.			
	A62	4,431,755	2/1984	Weber et al.			
	A63	4,434,075	2/1984	Mardis et al.			
	A64	4,434,076	2/1984	Mardis et al.			
	A65	4,450,095	5/1984	Finlayson			
	A66	3,136,819	6/1964	Shapiro et al			
	A67	4,454,237	6/1984	Hoda et al.			
	A68	4,455,382	6/1984	Wu			
	A69	4,462,470	7/1984	Alexander et al.			
	A70	4,464,274	8/1984	House			
	A71	4,465,542	8/1984	Furihata			
	A72	4,465,542	8/1984	Furihata			

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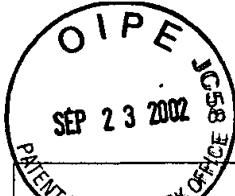
U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	A73	4,472,538	9/1984	Kamigaito et al.			
	A74	4,470,912	9/1984	Bea			
	A75	4,472,538	9/1984	Kamigaito et al			
	A76	4,473,477	9/1984	Beall			
	A77	4,473,675	9/1984	Knudson, Jr. et al.			
	A78	4,480,060	10/1984	Hoda et al.			
	A79	4,500,668	2/1985	Shimizu et al			
	A80	4,508,628	4/1985	Walker et al.			
	A81	4,517,094	5/1985	Beall			
	A82	4,528,104	7/1985	House et al.			
	A83	4,528,304	7/1985	Yoshimura et al			
	A84	4,549,966	10/1985	Beall			
	A85	4,552,712	11/1985	Ramamurthy			
	A86	4,558,075	12/1985	Suss et al			
	A87	4,569,923	2/1986	Knudson, Jr. et al.			
	A88	4,600,515	7/1986	Gleason et al.			
	A89	4,620,993	11/1986	Suss et al			
	A90	4,631,091	12/1986	Goodman			
	A91	4,640,716	2/1987	Cleland			
	A92	4,659,760	4/1987	Van der Meer			
	A93	4,664,842	5/1987	Knudson, Jr. et al.			
	A94	4,690,868	9/1987	Rice			
	A95	4,695,402	9/1987	Finlayson et al.			
	A96	4,724,098	2/1988	Kalz et al.			

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	A97	4,739,007	4/1988	Okada et al.			
	A98	4,743,305	5/1988	Doidge et al.			
	A99	4,743,306	5/1988	Jepson et al.			
	A100	4,753,974	6/1988	Goodman et al.			
	A101	4,775,586	10/1988	Bohrn et al			
	A102	4,786,558	11/1988	Sumiya et al.			
	A103	4,804,703	2/1989	Subramanian			
	A104	4,810734	3/1989	Kawasumi et al			
	A105	4,876,030	10/1989	Dixon et al.			
	A106	4,889,885	12/1989	Usuki et al.			
	A107	4,990,405	2/1991	Bohrn et al.			
	A108	5,061,744	10/1991	Ogitani et al.			
	A109	5,089,200	2/1992	Chapman, Jr. et al.			
	A110	5,110,501	5/1992	Knudson, Jr. et al.			
	A111	5,151,155	9/1992	Cody et al.			
	A112	5,160,454	11/1992	Knudson, Jr. et al.			
	A113	5,164,433	11/1992	Ricci et al.			
	A114	5,164,440	11/1992	Deguchi et al.			
	A115	5,164,460	11/1992	Yano et al.			
	A116	5,248,641	9/1993	Bauer et al.			
	A117	5,310,775	5/1994	Sibilia et al.			
	A118	5,334,241	8/1994	Jordan			
	A119	5,376,604	12/1994	Iwasaki et al.			
	A120	5,385,776	1/1995	Maxfield et al.			

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EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	A121	5,391,228	2/1995	Carrol			
	A122	5,514,734	5/1996	Maxfield et al.			
	A123	5,552,469	9/1996	Beall et al.			
	A124	4,623,398	11/1986	Goodman et al.			
	A125	5,574,179	11/1996	Wahl et al.			
	A126	5,576,257	11/1996	Jordan			
	A127	5,578,672	11/1996	Beall et al.			
	A128	5,616,286	4/1997	Jordan			
	A129	5,663,111	9/1997	Gadberry et al.			
	A130	5,700,319	12/1997	Bauer et al			
	A131	5,718,841	2/1998	Mardis et al.			
	A132	5,728,764	3/1998	Bauer et al.			
	A133	5,735,943	4/1998	Cody et al.			
	A134	5,739,087	4/1998	Dennis			
	A135	5,780,376	7/1998	Gonzales et al.			
	A136	5,785,749	7/1998	Knesek et al.			
	A137	5,786,417	7/1998	Ogawa et al.			
	A138	5,798,324	8/1998	Svoboda			
	A139	5,837,654	11/1998	Carroll et al.			
	A140	5,882,662	3/1999	Pahlck et al.			
	A141	5,883,173	3/1999	Elspass et al.			
	A142	5,900,309	5/1999	Kitamura et al.			
	A143	5,905,109	5/1999	Shimizu et al.			
	A144	5,916,863	6/1999	Iacobucci et al.			

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U.S. PATENT DOCUMENTS

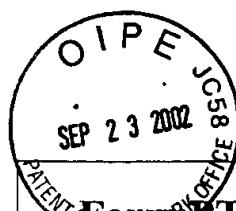
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	A145	5,919,863	7/1999	Seppänen et al.			
	A146	5,955,535	9/1999	Vaia et al.			
	A147	5,962,553	10/1999	Ellsworth			
	A148	5,977,050	11/1999	Faris			
	A149	5,989,331	11/1999	Bauer et al.			
	A151	6,025,303	2/2000	Keilhofer et al.			
	A152	6,034,163	3/2000	Barbee et al.			
	A153	6,036,765	3/2000	Farrow et al.			
	A154	6,037,315	3/2000	Franklin et al.			
	A155	6,060,549	5/2000	Li et al.			
	A156	6,074,474	6/2000	Broome et al.			
	A157	6,084,019	7/2000	Matayabas, Jr. et al.			
	A158	6,087,016	7/2000	Feeney et al.			
	A159	6,113,891	9/2000	Burdick et al.			
	A160	6,124,245	9/2000	Patel			
	A161	6,133,374	10/2000	Nam et al.			
	A162	6,136,241	10/2000	Gauckler et al.			
	A163	6,147,151	11/2000	Fukumoto et al.			
	A164	6,187,719	2/2001	Dino et al.			
	A165	6,221,831	4/2001	Emery			
	A166	6,271,298	7/2001	Powell			
	A167	US-2001-0056149-A1	12/2001	Powell			
	A168	US-2002-0002230-A1	1/2002	Farrow et al.			
	A232	2,885,360	5/1959	Haden et al.			

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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIA
	A233	3,252,757	5/1966	Granquist			
	A234	3,586,478	6/1971	Neumann			
	A235	3,855,147	12/1974	Granquist			
	A236	3,954,943	5/1976	Neumann et al.			
	A237	4,033,764	7/1977	Colegate et al.			
	A238	4,454,244	6/1984	Woltermann			
	A239	4,789,403	12/1988	Rice			
	A240	5,102,948	4/1992	Deguchi et al.			
	A242	5,554,670	10/1996	Giannelis et al.			
	A243	6,153,572	11/2000	Stamm			
	A241	6,225,374	5/2001	Vaia et al			
	A250	3,666,407	5/1972	Orlemann			
	A251	6,287,992	9/2001	Polansky et al.			

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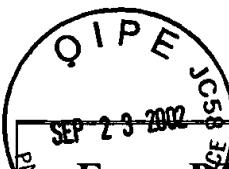
FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO YES/NO
	✓A169	3 434983	9/1984	DE			
	✓A170	19726278	6/1997	DE			
	✓A171	0 221 225	5/1987	EP			
	✓A172	0 315 987	5/1989	EP			
	✓A173	0 204 240	5/1990	EP			
	✓A174	0 614 445	9/1994	EP			
	✓A175	0 304 782	12/1993	EP			
	✓A176	0 787 767	8/1997	EP			
	✓A177	0 798 267	10/1997	EP			
	✓A178	0 952 187	10/1999	EP			
	✓A179	1 090 954	4/2001	EP			
	✓A180	0 747 322	9/2001	EP			
	A181	62-252426	11/1987	JP			
	✓A182	06-172741	6/1994	JP			
	✓A183	07-207134	8/1995	JP			
	✓A184	07-228762	8/1995	JP			
	✓A185	09-067521	3/1997	JP			
	✓A186	08-012881	1/1996	JP			
	✓A187	08-053572	2/1996	JP			
	✓A188	08-259846	10/1996	JP			
	✓A189	09-194724	7/1997	JP			
	✓A190	51-109998	9/1976	JP			

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	JA191	09-175817	7/1997	JP			
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	JA193	09-087096	3/1997	JP			
	JA194	09-132695	5/1997	JP			
	JA195	09-202843	8/1997	JP			
	JA196	09-225991	9/1997	JP			
	JA197	10 881785	3/1998	JP			
	JA198	11 071509	3/1999	JP			
	JA199	2000086234	3/2000	JP			
	JA200	920,797	3/1963	UK			
	JA201	1,054,111	1/1967	UK			
	JA202	1,213,122	11/1970	UK			
	JA203	1,432,770	4/1976	UK			
	JA204	1,439,828	6/1976	UK			
	JA205	2 158 053	11/1985	UK			
	JA206	83/01208	4/1983	WO			
	JA207	92/19693	11/1992	WO			
	JA208	93/04117	3/1993	WO			
	JA209	93/04118	3/1993	WO			
	JA210	93/11190	6/1993	WO			
	A245	93/11069	6/1993	WO			
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	JA212	97/17398	5/1997	WO			

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	A213	97/27155	7/1997	WO			
	A214	97/30950	8/1997	WO			
	A215	97/42279	11/1997	WO			
	A216	98/53000	11/1998	WO			
	A217	98/56598	12/1998	WO			
	A218	98/56861	12/1998	WO			

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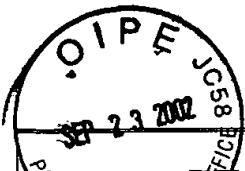
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A220	✓	Granquist, W. T. and Pollack, S. S. "A Study of the Synthesis of Hectorite," <i>Proceedings 8th National Conference on Clays and Clay Minerals</i> , Volume 8, pages 150-169.
A221	✓	Fischer, E. K. "Rheological Properties of Dispersions" <i>Colloidal Dispersions</i> , J. Wiley & Sons LTD., 1950, pp. 147-172.
A222	✓	Oldroyd, J. J.; "Non-Newtonian Flow of Liquids and Solids" Eirich, R. R. ed., Academy Press, <i>Rheology Theory and Applications</i> , 1956, pp. 658-659.
A223	✓	Searle et al., "Chemistry and Physics of Clays and Other Ceramic Materials" 3 rd Edition, p. 462-464
A224	✓	Takahashi et al., "Study of Synthetic Clay Minerals. Part IV: Synthesis of Microcrystalline Stevesite from Hydromagnesite and Sodium Silicate." <i>Microporous Materials</i> 1997, 9, 3542.
A225	✓	Tori et al., "Hydrothermal Synthesis of Novel Smectite-like Mesoporous Materials." <i>J. Porous Materials</i> , 1997, 4, 261-268.
A226	✓	Miyata, S. "The Syntheses of Hydrotalcite-like Compounds and Their Structures," <i>Clays and Clay Minerals</i> , 1975, 25, 369-375.

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 GROUP: 1714

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATIO YES/NO
	A227 ✓	Kloprogge, J. T., "Synthesis of Smectites and Porous Pillared Clay Catalysts: A Review." <i>J. Poro Materials</i> , 1998, 5, 5-41.					
	A228 ✓	Murphy, T. R., "Reinforced and Filled Thermoplastics," <i>Industrial and Engineering Chemistry</i> , 1966, Vol. 58, pp. 41-49.					
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	A230 ✓	Dannenberg, E. M. "The Effects of Surface Chemical Interactions on the Properties of Filler-Reinforced Rubbers," <i>Journal of Rubber Chemistry and Technology</i> , 1975, pp. 410-444.					
	A231 ✓	Wang et al. "Clay-Polymer Nanocomposites formed from Acidic Derivatives of Montmorillonite and an Epoxy Resin" <i>Chemistry of Materials</i> , 1994, 6, pp.468-474.					
	A246 ✓	Cowan et al. "Adsorption by Organo-Clay Complexes," Peragamon Press Ltd., Swineford, A., <i>Ninth National Conference on Clays and Clay Minerals</i> 1960, 9, 459-467.					
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	A248 ✓	Kloprogge et al., "Synthesis of Smectite Clay Minerals: A Critical Review" <i>Clays and Clay Minerals</i> , 1999, 47, pp. 529-554					
	A249 ✓	Wang et al., "PVC-Clay Nanocomposites Preparation Thermal and Mechanical Properties," <i>Polymer Preprints</i> , 2001, p. 842-843					

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